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GEOGRAPHIC INTELLIGENCE REPORT

CUBA

PART XVI: TELECOMMUNICATIONS



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CIA/RR OR J-60-1, Part XVI

March 1960

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CENTRAL INTELLIGENCE AGENCY

OFFICE OF RESEARCH AND REPORTS

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PART XVI: TELECOMMUNICATIONS

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CUBA

PART XVI. TELECOMMUNICATIONS

I. General

Cuba is served by an extensive network of diversified communication facilities. High-speed international communication connections between Cuba and the United States are provided by submarine cable, coaxial cable, radiotelephone, and radiotelegraph circuits as well as a modern troposphere scatter radio link. Radiotelephone and radiotelegraph circuits also provide high-speed connections between Cuba and key points in Latin America and Western Europe. A commercial telephone system provides service to all parts of Cuba, and all major cities are served by automatic telephone exchanges. Although currently somewhat unreliable the extensive government-owned microwave network provides high-speed communications for the armed forces, government administration, and public services. The Cuban Government also operates an island-wide telegraph system, with main offices located in major cities. Domestic broadcasting facilities consist of numerous low-power AM radio stations, as well as several FM and television stations. Domestic point-to-point radio is used extensively by commercial, industrial, and agricultural enterprises.

Currently, some sectors of the telecommunications network are disrupted. Physical destruction of public communication facilities occurred in late 1958 and early 1959, during the final stages of the revolution, and many stations of the government microwave network were reportedly damaged at the same time. Subsequent unstable economic and political

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conditions resulted in further deterioration of communications. The Cuban Telephone Company is currently sustaining financial losses because of toll reductions that followed government intervention. The current government has tentatively set the end of 1960 as the deadline for taking over control of all domestic written-record communications facilities, and 1961 as the deadline for its assumption of control of all international written-record communications facilities. Many radio stations have already stopped broadcasting. As of February 1958, there were no radar facilities in Cuba.

II. Telephone and Telegraph Systems

A. Telephone System

Cuba is served by an extensive telephone network that connects all major populated centers of the country (see Map 28739, in pocket). The Isle of Pines is connected to the main system by radiotelephone. The entire system is operated by the Cuban Telephone Company, a privately owned corporation. All major cities have automatic telephone exchanges. Havana has by far the greatest number, but automatic exchanges are also located in Pinar del Río, Marianao, Güines, Matanzas, Cárdenas, Sagua, Santa Clara, Sancti Spiritus, Ciego de Ávila, Camagüey, Victoria de la Tunis, Holguín, Santiago de Cuba, Santiago de las Vegas, Manzanillo, Bayamo, and Guantánamo. Except for 13 exchanges, these cities employ automatic step-by-step switching equipment. Eleven small central offices use relay equipment. Early in 1959, long-distance-dial service was established between Havana and San Antonio de los Baños, not far away. Such service is possible only between these two stations, however,

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because no others have been converted to distance dialing. Wirelines are largely carrier and open-wire circuits.

B. Telegraph System

The telegraph system, under the jurisdiction of the Ministry of Communications of the Government of Cuba, provides an integrated telegraphic network for the entire island, from Cortés on the west to Baracoa on the east.* For the most part the telegraph lines follow the major railroad lines, although for short distances they follow highways and roads. In some of the peripheral areas where there are no railroads the lines follow highways and roads exclusively.

Havana is by far the most important telegraph center. Important regional centers are Pinar de Río, Matanzas, Santa Clara, Ciego de Ávila, Camagüey, Bayamo, and Santiago de Cuba. Available information does not indicate whether these telegraph centers have automatic or semiautomatic equipment, but in Havana it is probably automatic. At key stations the telegraph network is linked with the government microwave relay network.

III. Submarine Cables

Cuba is served by a relatively extensive system of conventional telegraphic submarine cables as well as by a special type of submarine coaxial cable (see Tables 1 and 2, below, and Map 1, following p. 32). Most of the conventional cables are international circuits that provide direct connections between Cuba and the United States. The rest are

* A 1950 schematic diagram of the Cuban telegraph system is available at the CIA Map Library under Call No. 96154.

Table 1

International Submarine Cable Circuits
of Cuba

Circuits Operated		Type of Service	Number of		Company
From	To		Cables	Circuits	
Havana	Key West, USA	Telegraph	6	18	CAT&T
	Miami, USA	Telegraph	1	1	AAC&R
	New York, USA	Telegraph	1	1	AAC&R
Cojimar (near Havana)	Key West, USA	Telegraph	3	22	WU
Santiago de Cuba	Kingston, Jamaica	Telegraph	2	2	C&W
Guantanamo Bay (US Naval Station)	Balboa, Panama (via Colon) Ciudad Trujillo, Dominican Republic	Telegraph	3	3	AAC&R
	Port-au-Prince, Haiti	Telegraph	1	1	AAC&R
	La Mole, Haiti	Telegraph	1	1	AAC&R
	New York, USA	Telegraph	3	3	AAC&R
Havana	Key West, USA	Coaxial Cable	2	36 channels	probably AT&T

a. Abbreviations are used for company names as follows: AAC&R, All-American Cables and Radio, Inc.; AT&T, American Telephone and Telegraph Company; CAT&T, Cuban-American Telephone and Telegraph Company; C&W, Cable and Wireless, Ltd.; and WU, Western Union Telegraph Company.

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Table 2

Domestic Submarine Cable Circuits
of Cuba

<u>Circuits Operated</u>		<u>Type of Service</u>	<u>Number of</u>		<u>Company a.</u>
<u>From</u>	<u>To</u>		<u>Cables</u>	<u>Circuits</u>	
Surgidero de Batabanó	Nueva Gerona, Isle of Pines	Telegraph	1	1(?)	US
	Cienfuegos (via east point of Bahía de Cienfuegos)	Telegraph	2	2(?)	C&W
Cienfuegos (via east point of Bahía de Cienfuegos)	Santiago de Cuba	Telegraph	2	2(?)	C&W
Santiago de Cuba	Guantánamo Bay	Telegraph	1	1(?)	AAC&R
	Guantánamo Bay (abandoned cable)	Telegraph	1	?	?
Manzanillo (abandoned cable)	Cabo de la Cruz	Telegraph	1	?	?

a. Abbreviations are used for company names as follows: AAC&R, All-American Cables and Radio, Inc.; C&W, Cable and Wireless, Ltd.; and US, possibly US Government.

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either international circuits that connect with other Caribbean islands and Panama or domestic circuits that connect points along the south coast of Cuba. Most of the latter circuits are virtually obsolete, although they still have a very limited carrying capacity. They have been supplanted in large part by point-to-point radiotelephone and radiotelegraph circuits and submarine coaxial cable. In addition to the conventional submarine cables, two unique submarine coaxial cables were laid between Havana and Key West, Florida, about 1950. At Key West these cables are connected to Miami by overland coaxial cable (see Table 1).

IV. Microwave Radio Relay System

Cuba is served by an extensive microwave radio relay system. The actual extent of the facilities, however, and the present status of operation is not completely known. The system was begun in November 1954, when the Radio Corporation of America (RCA) signed a construction contract with the Cuban Government. The system was to consist of more than 100 stations -- 30 stations on the main microwave trunk and more than 70 feeder (satellite) stations (see Map 2). A main trunk line was to run the full length of the island from Pinar del Rio on the west to Santiago on the east. Relay stations on the trunk line were to be located as near as possible to the Carretera Central (Central Highway) and in places having military establishments that could provide protection and maintenance for the facilities. Feeder stations were to be located near existing radiotelegraph and radiotelephone stations wherever possible, and were to be connected to the main stations of the

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trunk line. Independent circuits were to be provided for (1) the Ministry of Communications, (2) public administration offices, (3) military organizations. Other independent circuits were to be provided to facilitate (1) teletype transmission by the National Observatory and (2) facsimile transmission by government administrators and the armed forces. The trunk system was to provide 66 telephone and 90 teletype circuits for various branches of the government and also for the public telegraph service. In the autumn of 1956 the Cuban Government decided to add 40 more feeder stations to the microwave network originally planned. Some of them were to be used to extend the public teleprinter service for the Havana area, and others were to provide service in localities not served by the system as planned originally. Private leased-line facilities were to be made available to sugar mills and other agricultural and industrial organizations.

25X1X

In 1956 [REDACTED] said that the entire system would be completed in approximately 2 years. As of June 1958, however, only 30 stations of the main trunk line and 31 feeder stations were completed sufficiently to go into operation. As of the same date, at least 5 additional stations had some microwave equipment installed.*

The present status of operation of the microwave system is difficult to ascertain, because it was damaged extensively during the latter part of the revolution. As of February 1959, the damaged facilities had not been repaired because funds were lacking. As late as June 1959, a

* A list of microwave stations showing status of completion as of June 1958 is available in ORR.

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[REDACTED] reported that the microwave system was very unreliable and that only on rare occasions could it be used over its entire length.

On 7 June 1959, the new government of Cuba enacted a law that created an autonomous organization called the Red Oficial de Comunicaciones per Microondas: ROCMI (Official Network of Microwave Communications). The function of this organization is to assume full control of the microwave communication network -- to regulate, maintain, and operate the network and make any changes or extensions required for future Cuban needs. ROCMI is also to have jurisdiction over the contract obligations of RCA, the commercial company that had been building the microwave system for the former Cuban Government.

V. Radio and Television Broadcasting Facilities

Broadcasting facilities, mainly operated commercially, provide extensive service for the more densely populated areas of Cuba. Television stations are located in the major urban centers. Radiobroadcasting facilities, which include many AM and several FM stations, are widely distributed throughout the country.

In June 1958, the Cuban Government licensed 184 radio and 18 television stations to operate in the country. An appendix (see p. 13) to this report lists these stations, giving their call letters, frequency, power, location of studio and transmitter, and licensee. The appendix probably is a reliable listing of the stations that existed in June 1958. During the 1958-59 period, however, only about one-third of all broadcasting stations licensed to operate were actually heard on the air. This relatively small number of stations actually in operation is

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probably the result of disruption of facilities during the revolution, decreased station income, and the prospect of intervention by the government of Cuba and possible nationalization of facilities.

Although the attitude of the present government is not clearly defined in the field of radiobroadcasting, it is generally assumed that it will recognize the licenses issued by the former Batista government in June 1958. The frequencies assigned to the stations at that time were made on the basis of international agreements regulating frequencies in broadcasting. In July 1959 the Director of Radio of the Ministry of Communications said that in the future Cuban radio stations would have to comply to the terms of all of Cuba's international agreements affecting them. The only known license changes made by the new government occurred on 10 December 1959, when two new FM stations were licensed to operate in Havana and the license of one AM station (CMDO) located in Banes, Oriente Province, was withdrawn. Television station CMFE-TV, Channel 9, has been licensed to operate in Camaguey. It will retransmit programs broadcast by CMAB-TV, Channel 2, in Havana.

VI. Shoran and Other Navigational-Aid Facilities

Only a limited amount of information is available on the navigational-aid facilities in Cuba, and this information covers only a small section of the island.

In 1957, 10 Shoran stations were operating along the northern coast of western Cuba from the Golfo de Guanhacabibes to Bahía Honda. All but one of them were used as control points in a Shoran offshore survey conducted during the same year. Because some of these stations consisted

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of mobile van equipment only, it is not certain that all of them still exist. Their location as of 1957 is given below.

<u>Shoran Station</u>	<u>Location</u>			
	<u>o</u>	<u>'N</u>	<u>o</u>	<u>'W</u>
Guane	22	12	- 84	02
Mantua	22	18	- 84	19
Cabo San Antonio (Naval Reservation)	21	52	- 84	57
Santa Lucia	22	40	- 83	58
La Esperanta	22	46	- 83	44
Central Niagara	22	49	- 83	32
La Mulata	22	52	- 83	23
Bahia Honda	22	56	- 83	12
Dimas	22	30	- 84	14
La Fe	22	03	- 84	16
(Location "C")				

In addition to Shoran stations, a radio beacon is reportedly located at Jaime González Airfield in Cienfuegos. Additional navigational-aid facilities undoubtedly exist, but a preliminary search of records has not turned up any information on them.

VII. Point-to-Point Commercial Radio Facilities

Both international and domestic point-to-point radio facilities are installed in Cuba. The relatively small number of international point-to-point facilities provide radiotelephone and radiotelegraph connections between Cuba and numerous stations in both the Western Hemisphere and Western Europe. On the basis of messages sent during the 1958-59 period, six stations handled all of the international traffic. They were the four stations in Havana, which handled the bulk of the international traffic, and those in Camaguey and San Pedro Bauta. An obviously clandestine station operated at Holguin in 1958.

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There are many more domestic point-to-point commercial stations in Cuba than international facilities.* During 1958 a total of 73 stations were heard, but by 1959 this number had been reduced to 54.

In addition to the usual point-to-point radio facilities, a troposphere scatter communications link was put in operation in 1957 between Florida City, Florida, and Guanabo, Cuba. This new ultra-high-frequency link has 24 channels for telephone service and supplements the submarine cable facilities already in operation. The installation can be expanded to a total of 150 channels for telephone use as it becomes necessary. This link also has facilities for transmitting television signals.

VIII. Trends

The present government of Cuba will probably continue to take action necessary for the complete nationalization of all telecommunication facilities. High priority will undoubtedly be placed on the rehabilitation and extension of the high-speed microwave communication network, as a means of improving internal security. Electronic equipment and technical assistance critical to the operation of the network may be provided by Sovbloc countries. Numerous radiobroadcasting and television stations will undoubtedly be brought under government control as media for propaganda dissemination. Rumors of deliveries of radio-jamming equipment may indicate an intention of the government to

* A rough-draft listing of all commercial point-to-point radio stations that broadcast during the 1958-59 period is available in ORR. Information on specific stations (including call signs, location by city and geographic coordinates, and the number of years the station has been heard) also can be provided by ORR.

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employ selective jamming techniques. It is unlikely, however, that such techniques will be employed widely because they would cause considerable interference to radio reception in nearby sections of the United States.

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APPENDIX

LIST OF RADIO STATIONS IN CUBA

The following information, in Spanish, is taken from "Relación de las estaciones radiodifusoras de AMPLITUD MODULADA, AMPLITUD MODULADA EN ALTAS FRECUENCIAS, TELEVISION y FRECUENCIA MODULADA, autorizadas para operar en el territorio nacional" (Record of the broadcasting stations of amplitude modulation [p. 14-27], high frequency [short wave] amplitude modulation [p. 28-29], television [p. 30-31] and frequency modulation [p. 32] authorized for operation in the national territory), compiled by the Ministerio de Comunicaciones Negociado de Licencias de Radio (Ministry of Communications [Cuba], Department of Radio Licenses), Havana, 16 June 1958.

Abbreviations Used in Following List of Radio Stations

AA	Aumento de potencia autorizado (Increase of power authorized)
Arre	. . . . .	Arrendatario (Lessee)
CC	. . . . .	Carretera Central (Central Highway)
C	. . . . .	Carretera (Highway)
D	. . . . .	Diurno (Daily)
DA	. . . . .	Antena Direccional (Directional Antenna)
E	. . . . .	Estudios (Studios)
e/	. . . . .	Entre (Between)
esq	. . . . .	Esquina (Corner)
EM	. . . . .	Equipo emergente (Emergency equipment)
Fca	. . . . .	Finca (Farm)
KM	. . . . .	Kilómetro (Kilometer)
N	. . . . .	Nocturno (Nightly)
Potencia	. . . . .	En kilovatios (Power in kilowatts)
PR	. . . . .	Pinar del Rio
Rpto	. . . . .	Reperto (Delivery)
s/n	Sin número (Without Number)
T	Transmisor (Transmitter)
FO	Futura Operación (Future Operation)

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AM Radio

NEGOCIALO DE LICENCIAS DE RADIO

LISTA DE ESTACIONES RADIODIFUSORAS DE AMPLITUD MODULADA AUTORIZADAS
PARA OPERAR EN LA BANDA DE RADIODIFUSION EN EL TERRITORIO NACIONAL.

PROVINCIA DE LAS VILLAS

CANAL	SIGLAS	Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMHI.	570	10DA	T)	Km. 303-304, c.c. Sta. Clara, L. V. E) O. No. 216 Vedado, Hab.	Circuito Nacional Cubano, S.A.
CMHQ.	640	15DA	T)	Fca. del Sr. J.R. Fernandez C. Camajuani, Santa Clara, L.V.	Circuito CMQ, S.A.
CMHG.	670	ID	T)	Fca. Sn. Jose del Niagara, Km. 3-5 Santa Clara, Caibarien, L.V. E) Ave. Menocal No.105, Hab.	Estaciones Radiodifusoras, Radio Progreso, S.A.
CMHN.	680	ID 0.5W	T)	Fca. N. Sra. de Regla, Cienfuegos, L.V. E) Ave. Menocal 105, Habana.	Estaciones Radiodifusoras, Radio Progreso, S.A.
CMHU.	720	0.25	T)	Prado 190, Cienfuegos, L.V.	Modesto R. Vazquez.
CMHB.	780	0.25	T)	Fca. la Esperanza, S. Spiritus, Gibaro. E) Calle 23 No.78, Ved. Hab.	Union Radio, S.A.
CMHW.	810	ID 0.25W	T)	Km. 303-304 c.c. Sta. Clara, L.V. E) Parque esq. a Rolando Pardo, Sta. Clara, L.V.	Circuito Nacional, S.A.
CMHD.	890	1.	T)	Fca. Columbia, Km. 2-3, C. Camajuani, Sta. Clara, L.V. E) Calle 23 No.78, Ved. Habana.	Union Radio, S.A.
CMHH.	940	0.25	T)	Prado 109, Cienfuegos, L.V. E) " " " "	Radio Garcia Serra.
CMHZ.	970	0.25	T)	M. Nicolasa e/ Villuendas y J.B. Zayas, Sta. Clara.	Mario Gonzalez Cuesta y Garcia.
CMHT.	990	ID 0.25W	T)	Fca. S. Jose de las Casas, S. Spiritus, L.V. E) Camara de Comercio, Luz Caballero esq. a Guiteras, S. Spiritus, L.V.	Juan M. Santana Padron.
CMHS	1020	0.ID	T)	M. Gomez No.30, Caibarien, L.V. E) Agramonte y Calle Jimenez, Caibarien, L.V.	Alberto Aragonas Machado.

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NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE LAS VILLAS

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMHF.	1040	0.10	T) Cid y Callejon, Playa Alegre, Cienfuegos, L.V. E) Prado esq. a Arguelles.	Humberto Valdes Yero
CMHE.	1090	0.25	T) Carlos Loveira s/n, Encrucijada, L.V.	Humberto Valdes Yero.
CMHM.	1130	1.	T) Fca. S. Aracelia, CC. Km. 295, Oeste, Sta. Clara, L.V. E) Edif. R. Odontologico, L.No.353, 12 p. Ved. Hab.	Cadena Oriental de Radio, S.A.
CMHV.	1180		T) Sta. Clara, L.V.	Cia. Insular de Radiodifusion, S.A.
CMHK.	1210	1.	T) Fca. La Francia, Cruces, L.V. E) Heredia No. 61.	Virgilio Villaneuva Fernandez.
CMHP.	1250	0.25	T) Marti 198, esq. a S. Ines, S. Spiritus, L.V.	F. Gloria de las M. Enriquez.
CMHA.	1280	1.	T) Anita Pegudo y Felix Huer- go, Sta. Clara, L.V. E) M. Nicolasa Candelaria 19 esq. a Colon, Sta. Clara, L.V.	Jose M. Vazquez Gonzalez.
CMHO.	1310	1.	T) Km. 2 C. Segua la Grande, Sta. Clara, L.V. E) Ave. Rancho Boyeros y Mordazo, La Habana.	Organizacion Insular de Radio.
CMHJ.	1350	0.25	T) Malecon e/ B y Luz Cien- fuegos, L.V. E) Cienfuegos, L.V.	Telerrape, S.A.
CMHC.	1410	1.	T) Fca. Columbia, Km. 3 C. Camajuani, L.V. E) Parque Vidal No. 1, al- tos, Sta. Clara, L.V.	Mario Perez Marrero.
CMHL.	1450	0.25	T) Sta. Ana 25 S. Spiritus, L.V. E) Cervantes No. 3.	Radio Tiempo, S.A.
CMHX	1480	0.25	T) Gran Hotel, frente a P. Vidal, Sta. Clara, L.V.	Danilo G. Garcia Ro- driguez.
CMHR	1570	0.25	T) Rto. Delicias, Segua La Grande, L.V. E) Ave. Gomez, S. la Gran- de, L.V.	Radio Tiempo, S.A.
CMHY	1590	1.	T) B. Maso s/n. Cabaiguan. E) B y C, Cabaiguan, L.V.	Cia. Martin y Perez

NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE LA HABANA

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMCY	550	2.5	T) Fca. La Guira Regla, Hab. E) Escobar No.452, altos, Habana	Radio Siboney, S.A.
CMW	590	15 DA 25 AA 0.25. EM	T) Fca. El Guarapo, C. Boyeros E) O. No.216, Ve- dado, Hab.	Circuito Nacional Cubano, S.A.
CMQ	630	50 DA	T) Fca. Segundo Fal- con, Rpto. Ermita, A.Arenas y Edif. Focsa E) Radiocentro, M, No.312, Vedado, Habana	Circuito CMQ, S.A.
CMCU	660	5	T) Cienega, C.de R. Boyeros. E) Paseo de Marti, 260, Habana	Radio Garcia Serra, S.A.
CMEC	690	50 DA	T) Fca. P.Blanco, Barrio de Coji- mar, Gmbcoa. E) Ave. Menocal No.105, Habana	Estaciones Radiodi- fusoras, Radio Pro- greso, S.A.
CMCA	730	10 DA	T) Fca. San Pablo, B. Falcon, A. Arenas, Hab. E) Prado No.107, Hab.	Radio Mambi, S.A.
CMCD	760	10 DA	T) Fca. El Tamarindo, Regla, Hab. E) Malecon 303, esq. a Galiano, Hab.	La Voz del Aire, S.A.
CMCH	790	10	T) Cayo Cruz, Bahia, E) San Jose 104, La Habana	Radio Onda Masical Espanola, S.A.
CMBZ	830	5. D 1.N-DA-N 0.25 EM	T) Infanzon C. de R. Boyeros E) San Rafael 108 La Habana	Manuel y Guillermo Salas
CMEL	860	15 DA	T) Fca. La Pastora Arroyo Apolo E) 25, No. 1113, Ve- dado, Habana	Radio Cadena Suari- tos, S.A.

S-E-C-R-E-T

AM Radio

NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE LA HABANA

SIGLAS	CAVAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMCQ	890	0.25	T) V. Alegre 269 Vibora, Hab. E) Ave. Menocal No. 801, Hab.	Radio Onda Musical
CMCF	910	10	T) Fca. La Cascada, C. de R. Boyeros (Fca. San Jose, Marianao,) E) 23 No. 78, Vedado Hab.	Union Radio, S.A.
CMBF	950	10 DA	T) Fca. Segundo Fal- con, Rpto. Ermita, Arroyo Arenas E) Radiocentro, M. No. 312, Vedado, Hab.	CMBF-Cadena Nacio- nal, S.A.
CMCK	980	5.	T) Ptes. Grandes, Ave. R. Boyeros y Morda- zo, La Habana	Cia. Radiodifuso- ra COCO y CMCK, S.A.
CMBQ	1010	5.D 1.N 25 DA AA	T) Fca. El Palmar, C. R. Boyeros, Hab. E) Paseo de Marti 206, Hab.	Radio Continental CMBQ, S.A.
CMCX	1060	10 D	T) Fca. El Refugio, Regla, Hab. E) Edif. Retiro Odon- tológico, L 353 bajos, Vedado, Hab.	Espacio Aereo S.A.
CMBS	1090	0.25	T) Edif. Atlantic, Ve- dado, Hab. E) 23 e/10 y 12, Ve- dado, Hab.	Radio Capital Artalejo, S.A.
CMBY	1120	0.25	T) Ave. Menocal No. 159, Hab.	Pages y Cia.
CMBK	1150	0.25	T) Escobar 452, Hab. E) Carballo No. 9, Cerro	Cia. Inmobiliaria UCARO, S.A.
CMBR	1170	0.25	T) P. de Carlos III e/ Estrella y Retiro La Habana	Columbo Rodriguez.
CMK	1200	0.25	T) Manzana de Gomez Apts. 508-509 Hab.	Fausto Montiel
CMCO	1230	0.25	T) Ave. Simon Bolivar 67, Hab. E) Paseo de Marti 111 Habana	Edelberto Perez Rubio

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S-E-C-R-E-T

AM Radio

NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE LA HABANA

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMCI	1260	5	T) Fca. Rosalia Abreu Palatino, Hab. E) Edif. Retiro Odon- tológico, L 353 12do. piso, Hab.	Cadena Oriental de Radio, S.A.
CMCW	1290	0.25	T) Malecon 303, Hab. E) " " "	Gilberto y Mario Lavin Dominguez
CMCB	1330	1 1.EM	T) Fca. Segundo Fal- con, Rpto. Ermita Arroyo Arenas, Hab. E) Radiocentro M, 312 Vedado, Hab.	Radio Reloj, S.A.
CMBG	1360	0.25	T) San Rafael 406 La Habana E) Misma direccion	Antonio Fuentes Rodriguez
CMBN	1370	0.25	T) Sta. Fe, Isla de Pinos, La Habana	Cia. Operadora Circuitos Ra- diales, S.A.
CMEX	1390	0.25	T) San Miguel 570 La Habana	Alberto Alvarez Ferrara
CMCG	1420	0.25	T) Real No. 302, La Ceiba, Marianao	Radio Memoria, S.A.
CMCM	1460	0.25	T) Velazquez No. 10 Luyanó, La Habana	Transradio Co- lumbia, S.A.
CMOX	1490	0.25	T) Calle 10 No. 423, Vedado, Hab.	Cia. Electronica, S.A. Arre. Cia. Cuba- na Americana de Radio, S.A.
CMED	1520	0.25	T) Ave. Columbia 64 Marianao, Hab.	Luis Perez Garcia
CMZ	1560	5	T) Consejo Corporativo, Columbia, Marianao	Ministerio de Educacion
CMOA	1590	0.25	T) Ave. Progreso 316 Barrio Coco Solo Marianao, Hab.	Juan Fdz. Duran

S-E-C-R-E-T

MINISTERIO DE COMUNICACIONES
NEGOCIADO DE LICENCIAS DE
RADIO

PROVINCIA DE PINAR DEL RIO

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMAF	680	I.D.	T) Fca. Ote.B.Tairomas, Pinar del Rio.	Ests.Radiodi- fusoras,Radio
		5.N.	E) Infanta No.105,Habana.	Progreso,S.A.
CMAB	740 1070 fo	5.D.	T) Barrio Primero de O- vas, P.R.	Simeon Ferro Martinez.
		2.N.	E) Maceo esq. a Rosario Pinar del Rio.	
CMAW	800	0.25	T) Isabel la Catolica y Freijes, P.R.	Pedro Redondo Fernandez.
			E) Manuel Landa No.6,P.R.	
CMAN	840	1.	T) Fca. Capote,Km. 174, CC.Pinar del Rio.	Circuito Nacio- nal, Cubano,
			E) Calle O.No.216, Vedado La Habana.	S.A.
CMAG	880	1.	T) Km. 156,CC. C. del Sur Pinar del Rio.	Union Radio S.A.
			E) Calle 23, No.78,Vedado La Habana.	
CMAQ	920	1.D. 0.25N	T) Fca. Capote, P.R.	Circuito CMQ, S.A.
			E) Radiocentro, M.No.312 Vedado, La Habana.	
CMAS	990	0.25	T) Edif. El Globo, Mar- ti y Recreo. P.R.	Radio Garcia Serra, S.A.
CMAC	1030	0.25	T) Capitan Reyes,No.25, Sn. Cristobal, P.R.	Guillermo Gar- cia.
CMAR	1190	0.25	T) Pinar del Rio.	Cia. Insular de Radiodifu- sion, S.A.
CMAP	1210	0.25	T) Guane,Pinar del Rio	Juan Escobar.
CMAD	1240	0.25	T) Edif. El Globo,P.R.	Columbo Rodri- guez.
CMAE	1300	0.25	T) Pinar del Rio.	Columbo Rodri- guez.
CMAL	1340	0.25	T) Fca. Vegetal Km.1.5. C.P. Sn. J. y Marti- nez, Pinar del Rio.	Radio Occiden- te
			E) Maceo esq. A Rosario Pinar del Rio.	
CMAH	1400	0.25	T) Consolacion del Norte.	G. Blanco Pi.

MINISTERIO DE COMUNICACIONES

NEGOCIADO DE LICENCIA DE
RADIO

PROVINCIA DE MATANZAS

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMGX	910	1.	T) Matanzas, Mtzs.	Union Radio, S.A.
CMGF	930	0.25	T) Merced No.37 Mtzs. E) O.No.216,Vedado, La Habana.	Circuito Nacional Cubano, S.A.
CMGN	960	0.5	T) Km.159,CC.Jove- llanos, Mtzs. E) O.No.216,Vedado, La Habana.	Circuito Nacional Cubano, S.A.
CMGO	1030	0.25	T) Colon, Matanzas.	Cia. Insular de Ra- diodifusion, S.A.
CMGW	1100	0.5	T) Fca. Maicas,Km. 101, Matanzas. E) Milanés No.45, Mtzs.	Ramon A. Zayas Lo- pez.
CMGY	1240	0.25	T) Matanzas, Mtzs.	Radiotiempo, S.A.
CMGU	1340	0.25	T) Fca. La Chilena Colon, Matanzas. E) Edif. Ret.Odonto- logico,L.353,12do piso,Vedado,Hab.	Cadena Oriental de Radio, S.A.
CMGL	1400	0.25	T) Alturas de Monse- rrat, Matanzas. E) Edif. Ret.Odonto- logico,L.353,12do piso,Vedado,Hab.	Cadena Oriental de Radio, S.A.
CMGM	1440	0.25	T) C. de Sn. Juan 119, Matanzas. E) Sta.Teresa 50, Matanzas.	Oswaldo Menocal Santana.
CMGE	1470	0.25	T) CespedesNo.470. E) Cardenas.Mtzs.	Genaro Sabater Fox.
CMGB	1580	0.25	T) Varadero,Car- denas, Mtzs.	Roberto Rodriguez Aragon.

NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE CAMAGUEY

SIGLAS	Kc/s	POTENCIA	UBICACION	PERMISTONARIO
CMJJ.	540	0.25	T) Solitario No.13 altos, Camaguey. E) Jatibonico F.O.	Nicolas Rios Miera.
DMJP.	580	0.5D 0.25N	T) Ave. G. Menocal y 3ra. Ciego de Avila Camaguey.	Armando A. Jimenez Finales.
DMFB.	620	0.25	T) Moron, Camaguey	Cia. Insular de Radiodifusion, S.A.
CMJE.	680	1.	T) Alturas de Jayama Barrio Maraguan. E) Ave. Menocal 105, La Habana.	Estaciones Radiodifusoras Radio Progreso, S.A.
CMJT.	700	I.D.	T) Fca. La Palma, C de Avila, Camaguey. E) Infanta 105, Hab.	Estaciones Radiodifusoras Radio progreso S.A.
CMJY.	760	1.	T) Fca. Sta. Barabara, C. de Avila, Camg. E) Avellaneda 215, Camg.	Ricardo Miranda Cortes
CMJS.	800	1.	T) Ciego de Avila, Cam.	Cadena Oriental de Radio, S.A.
CMJM.	840	0.5	T) Fca. El Aserradero, Km. 462. 7. C. de E) O. No.216, Ved. Hab.	Circuito Nacional Cubano, S.A.
CMJB.	880	1.	T) Fca. Guernica, Camg. E) 23 No. 78, Ved. Hab.	Union Radio, S.A.
CMJV.	900	1.	T) Fca. La Loma, Barrio Sur, C. de Avila, Camg. E) Radiocentro, M 312 Ved. Habana.	Circuito CMQ, S.A.
CMJL.	920	IODA	T) Fca. Villa Rosita, KM. 577 CC. Camg. E) Radiocentro, M. 312, Vedado, Habana.	Circuito CMQ, S.A.
CMJN.	960	1.	T) Km. 572.85 CC. Camg. E) O. No.216, Ved. Hab.	Circuito Nacional Cubano, S.A.
CMJG.	1000	1.	T) Fca. de S. Maria de Jamaya, Camaguey. E) Edif. R. Odontologico, L.No.353, 12 p. Ved. Habana.	Cadena Oriental de Radio, S.A.

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AM Radio

NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE CAMAGUEY

SIGLAS	CANAL Kc/s.	POTENCIA	UBICACION	PERMISIONARIO
CMJR.	1030	1.	T) Villa Maria, Km.575-76, CC. Camaguey. E) Republica 286, Camg.	Noticiero Radio Legen-
CMJA.	1060	0.25	T) Maceo 83, Camaguey. E) Camaguey.	Rafael Valdes Jimenez.
CMFA.	1110	0.25N 1.D	T) Camaguey.	Pablo A. Alejo.
CMJK.	1160	1.	T) Fca. Jayama, Km.574, CC. Camaguey. E) Finlay 4, Camaguey.	Jones Castrillon y Cia.
CMJD.	1190	0.25	T) Republica 36 C. de Avila, Camg. E) Calle 23 No.78, Ved. Hab.	Union Radio, S.A.
CMJX.	1230	0.25	T) Serafin Sanchez 48, Moron. Camg. E) Moron.	Pablo Castellanos Caba- llero.
CMJC.	1270	1.	T) Gral. Gomez 648, Cam. E) Independencia 308, Camaguey.	Cadena Camagueyana de Radio, S.A.
CMJQ.	1300	0.25	T) C. Garcia esq. a Mar- ti, Nuevitas, Camg.	Juan Filgueiras Caba- leiro.
CMFC.	1320	0.25	T) Moron, Camaguey.	Cia. Insular de Radio- difusion, S.A.
CMJF.	1340	1.	T) Ave. del Aeropuerto letra D, Camaguey.	Radio Camaguey, S.A.
CMJH.	1370	0.25	T) H. del Castillo 5 al- tos, C. de Avila. Cam.	Luis Marauri Mendoza.
CMJI.	1400	0.25	T) CC. e/ Pdte. Gomez y Eguizguiza. E) Florida.	Oswaldo Moran Arteaga.
CMJU.	1420	0.25	T) Marti 172, Moron, Cam. E) Idem.	Emilio F. Fernandez.
CMJW.	1440	0.25	T) Ave. de los Martires No. 375, Camaguey.	Admor. Antonio A. Moran Arteaga, sucesores de Andres Moran Cisneros.
CMJO.	1470	0.25	T) Fca. Escandon, C. de Avila, Cam. E) Cuba 213 Oeste, C. de Avila, Cam.	Bonifacio Idelfonso Mo- rales.
CMJZ.	1500	0.25	T) Fca. La Loma, fren- al Km. 465 CC. Ciego de Avila, Camaguey.	Pablo Castellanos Caba- llero.

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NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE ORIENTE

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMKM	560	5.	T) Fca. La Calera, Km. 774, 75 CC. Holguin, Ote. E) Calle 23 No. 78, Ve- dado, Hab.	Union Radio, S.A.
CMKV	600	1.	T) Ciudad Jardin, Km. 770.1 C.C. Holguin, Ote. E) O. No. 216, Vedado, Hab.	Circuito Nacional Cubano, S.A.
CMKU	630	2.	T) Margen derecha del Rio Gascon, Barrio Caimanes, Sto. Cuba Vedado, Hab.	Circuito CMQ, S.A.
CMKP	670	1.	T) Fca. San Antonio, Cuar- ton de Perdenales, ba- rrio de Guirabo, Hol- guin, Ote. E) Ave. Menocal 105, Hab.	Estaciones Ra- diodifusoras Radio Progreso, S.A.
CMDB	680	1 D 0.5 N	T) Fca. Sueno Km. 3 Stgo de Cuba, Ote. E) Ave. Menocal 105, Hab.	Estaciones Ra- diodifusoras Radio Progreso, S.A.
CMDU	710	0.25	T) Guantanamo, Ote. Marti No. 905	Cia. Insular de Radiodifusion, S.A.
CMKJ	740	10	T) Fca. Aguilera e/CC y la de Cacocum, Holguin Ote. E) Radiocentro, M 312 Vedado, Hab.	Circuito CMQ, S.A.
CMDC	770	1.	T) Rpto, Hato de Holguin Ote. E) Aguilera 511, Stgo. de Cuba, Ote.	Radio Oriente,
CMKL	800	2.	T) Fca. San Matias, Km. 966.6 C.C. Stgo. Cuba, Ote. E) Edif. Retiro Odontolo- gico, L 353, 12do. piso Vedado, Hab.	Cadena Oriental de Radio, S.A.
CMDE	820	0.25	T) Bayamo, M.N. Ote.	Reloj del Aire, S.A.
CMDD	840	1 D	T) Fca. Las Tunas Victo- ria de las Tunas, Ote. E) Hotel Gran Casino, V. de las Tunas, Ote.	V. Luis Lima Del- gado

NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE ORIENTE

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMKC	850	1.	T) Calle 6 esq. a F,Rpto. Fomento, Stgo. de Cu- ba, Oriente. E) Aguilera 511, Stgo. de Cuba, Oriente.	Radio Oriente,
CMDY	870	T)	T) Holguin, Oriente.	Reloj del Aire, S.A.
CMOZ	890	0.25	T) Fca. Sn. Juan, San- tiago de Cuba, Ote. E) Aguilera 514, Stgo. de Cuba, Oriente.	Radio Cadena Santiago, S.A.
CMKN	930	1.	T) Loma Quintero, Km. 965.5 CC. Stgo. de Cuba, Oriente. E) Calle O.No.216, Ve- dado, La Habana.	Circuito Nacio- nal Cubano, S.A.
CMDJ	950	0.25	T) Fca. Alturas de Po- lanco, Km. 1. Guanta- namo, Oriente. E) Aguilera 511, Stgo. Cuba, Oriente.	Radio Oriente, S.A.
CMKD	970	1.	T) Fca. La Dehesa, Hol- guin, Oriente. E) Edif. Retiro Odonto- logico, L.No.352, 12do. piso, Vedado, Habana.	Cadena Oriental de Radio, S.A.
CMKW	1000	0.25	T) Fca. Sn. Matias, Km. 966.6 CC. Stgo. de Cuba, Oriente. E) Estrada Palma 658, Stgo. de Cuba, Ote.	Reloj del Aire, S.A.
CMDO	1020	0.25D	T) Ave. Cardenas 40, Banes, Oriente.	Radio Banes, S.A.
CMDW	1030	5.	T) Km. 4 CC. Loma Quin- tero, Stgo. de Cuba. E) Aguilera 559, Santia- go de Cuba, Oriente.	Ricardo Miran- da Cortes.
CMKF	1050	0.25	T) Frexes esq. a Rastro, Holguin, Oriente.	Manuel de J. Gongora.
CMDH	1060	0.25	T) Stgo. de Cuba, Ote.	E. Hernandez Callard.

NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE ORIENTE

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMKS	1070	0.25	T) Luz Caballero Sur s/n e/ 2 y 3 Guantanamo, Ote.	Radio Savon, S.A.
CMKR	1070	I.D.	T) Fca. Sta. Isabel del Sur, Stgo. de Cuba, Ote. E) B. Maso 515, Stgo. de Cuba, Oriente.	J. Nadal Agui- rrezabal.
CMDN	1110	0.25	T) Sn. Gregorio, 1066, Altos Guantanamo, Oriente.	Circuito Nacio- nal Cubano, S.A.
CMDK	1120	0.25	E) O. No. 216, Vedado, Hab. T) Stgo. de Cuba, Oriente.	Radio Turquino, S.A.
CMKH	1130	0.25	T) C. Garcia Sur, Guanta- namo, Oriente. E) 24 esq. a D. Marmol, Guantanamo, Oriente.	Luis Coronado Estrada.
CMDL	1150	I.D.	T) Ira. e/ Ave. de los Alamos y 24 de Febre- ro, Holguin, Oriente. E) M. Gomez e/ Fraxes y Aguilera, Holguin, Ote.	Edwin Acosta Pita.
CMKB	1170		T) Fca. La Cruz, Barrio Garzon, Stgo. de Cuba. E) Calle 23 No. 78, Vedado, La Habana.	Union Radio, S.A.
CMDD	1200	0.25	T) Km. 842, CC. Bayamo M.N. E) Aguilera 511, Stgo. de Cuba, Oriente.	Radio Oriente, S.A.
CMKO	1220	0.25	T) Gral. T. Salazar No. 21, Holguin, Oriente.	Manuel Angulo Farran.
CMDI	1230	0.25	T) Stgo. de Cuba, Ote.	Cia. Insular de Radiodifu- sion, S.A.
CMKE	1240	0.25	T) Fca. El Rincon Vic- toria de las Tunas, Oriente.	Ricardo Miran- da Cortes.
CMKA	1250	0.25	T) 7 Oeste e/ 2da y 3ra. Sur, Guantanamo, Ote. E) Edif. Ret. Odontologi- co, L. 352, 12do. piso, Vedado, La Habana.	Cadena Oriental

NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE ORIENTE

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMDE	1260	0.25	T) Fca. Tablada, Barrio Horno, Bayamo, M.N. Oriente. E) Edif. Ret. Odontológico, L.353, 12do. piso, Vedado, La Habana.	Cadena Oriental de Radio, S.A.
CMDF	1280	0.25	T) Victoria de las Tunas, Oriente.	Cadena Oriental de Radio, S.A.
CMDG	1290	0.25	T) Beneficencia 1039, Guantnamo, Oriente.	Carlos Abrutis
CMDA	1320	1.	T) Villa Maria Km.13 CC. Stgo. de Cuba, Oriente	Red Provincial de Radio, S.A.
CMKY	1350	0.25	T) E. Rosendo 49, Puerto Padre, Oriente.	Pedro Zacca Cheda.
	1360	0.25	T) Stgo. de Cuba, Ote.	Red Provincial de Radio, S.A.
CMKX	1390	0.25	T) Libertad s/n, altos del Teatro Estrada Bayamo, M.N. Ote.	Aristides Gervet de Villafane.
CMKI	1400	0.25	T) 2da. Oeste e// N. Lopez y C. Garcia, Guantnamo, Ote. E) Calle 23 No.783, Vedado, La Habana.	Union Radio S.A.
CMDR	1410	0.25	T) Holguin, Oriente.	Cia. Insular de Radiodifusion, S.A.
CMKZ	1430	0.25	T) Marti esq. a 21, Palma Soriano, M.N.	Maria Dominguez Dossou.
CMDX	1450	0.25	T) Baracoa, Oriente.	J. Amable Martinez.
CMKQ	1460	0.5.	T) Gral. Garcia 671 e/ Cespedes y Carbon, Sn. Luis Oriente.	R. de Armas Trompeta.
CMKG	1490	0.25	T) Guantnamo, Ote. E) F. Varona 107 e// Lora y Heredia, Vict. de las Tunas.	Red Prov. de Radio, S.A. Espinosa y de
CMKT	1520	I.D. 0.25N	T) Angel Guerra e// Lucas Ortiz y V. Garcia, Vict. de las Tunas.	Alfredo Sanchez Morejon.

S-E-C-R-E-T

AM Radio

MINISTERIO DE COMUNICACIONES

NEGOCIADO DE LICENCIAS DE RADIO

PROVINCIA DE ORIENTE

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
CMDV	1550	0.25	T) Aguilera 505, Stgo. de Cuba, Oriente.	J. Camacho Porro.
CMDS	1580	0.25	T) Km. 7 1/2 CC. Holguin, Oriente. E) Maximo Gomez No. 122, Holguin, Oriente.	Radio Norte, S.A.
CMDF	1590	0.25	T) Jose Miguel Gomez e/ Codina y Jose Antonio Saco, Man- zanillo, Oriente.	Francisco J. Sanz Valdes.

S-E-C-R-E-T

MINISTERIO DE COMUNICACIONES

NEGOCIADO DE LICENCIAS DE

RADIO

RELACION DE LAS ESTACIONES RADIODIFUSORAS DE AMPLITUD MODULADA AUTORIZADAS PARA OPERAR EN ALTAS FRECUENCIAS EN EL TERRITORIO NACIONAL

PROVINCIA DE LA HABANA

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
COCOA.	2440	1 kw	T) Calle E. 153, Vedado, La Habana. E) Calle 24 No.162, Vedado, La Habana.	Carlos Sn. Martin Fresneda. Arre: Sonorama S.A.
COCW.	5045 21740	1 kw	T) Fca. La Guira, Regla. E) O. No.216, Vedado, La Habana.	Circuito Nacional Cubano, S.A.
COCO.	6010 9535	5 kw	T) Ptes. Grandes, Marianao, La Habana. E) Reina No.314, Habana.	Cia. Radiodifusora COCO y CMCK S.A.
COCN.	6130	1 kw	T) Malecon No.303, esq. a Galiano, Habana.	La Voz del Aire, S.A.
COCY.	6175 11740 21620	1 kw	T) Fca. El Guarapo C. R. Boyeros, Habana. E) Escobar 452, 3er. piso, La Habana.	Radio Siboney, S.A.
COBZ.	9030 17820	1 kw	T) C.R. Boyeros, Hab. E) Sn. Rafael No.108, La Habana.	Guillermo Salas.
COBQ.	9235 9540	1 kw	T) Vista Alegre 269, Vibora, La Habana. E) Ave. Menocal No. 801 La Habana.	Radio Onda Musical Cubana, S.A.
COBC.	9362	1 kw	T) Fca. Puente Blanco Barrio de Cojimar, Guanabacoa. E) Ave. Menocal No.105, La Habana.	Estaciones Radiodifusoras, Radio Progreso, S.A.
COX-4	9640	5 kw	T) Consejo Corporativo, Columbia, Marianao, La Habana.	Ministerio de Educacion.
COCQ	9670	1 kw	T) Fca, Segundo Falcon Rpto. Ermita, Arroyo Arenas, Marianao.	Circuito CMQ, S.A.

S-E-C-R-E-T

CONTINUACION

Short Wave Radio

MINISTERIO DE COMUNICACIONES

NEGOCIADO DE LICENCIAS DE

RADIO

RELACION DE LAS ESTACIONES RADIODIFUSORAS DE AMPLITUD MODULADA AUTORIZADAS PARA OPERAR EN ALTAS FRECUENCIAS EN EL TERRITORIO NACIONAL.

PROVINCIA DE LA HABANA

SIGLAS	CANAL Kc/s	POTENCIA	UBICACION	PERMISIONARIO
COBL.	9833	1 kw	T) Fca. La Pastora, Arroyo Apolo, La Habana. E) 23, No. 1113, Vedado, Hab.	Radio Cadena Suaritos, S.A.
COBH.	11800	1 kw	T) Cayo Cruz, La Habana. E) Sn. Jose No. 104, Hab.	Radio Onda Musical Es- penola, S.A. Arre: Radihora.

PROVINCIA DE CAMAGUEY

COJK.	9620	1 kw	T) Fca. Jayama Km. 574, CC. Camaguey. E) Finlay No. 4, Cam.	Jones Castri- llon y Cia.
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PROVINCIA DE ORIENTE

COKG.	9740	1 kw	T) Fca. Sn. Matias Km. 966 CC. Stgo. de Cuba, Oriente. E) Estrada Palma No. 658, Santiago de Cuba.	Ricardo Mi- randa Cortes.
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ABREVIATURAS EMPLEADAS

T.....	Transmisor
E.....	Estudios
Esq.....	Esquina
Kw.....	Kilowatts
Fca.....	Finca
CC.....	Carretera Central
C.....	Carretera

S-E-C-R-E-T

S-E-C-R-E-T

TV

MINISTERIO DE COMUNICACIONES
NEGOCIADO DE LICENCIAS DE
RADIO

RELACION DE LAS ESTACIONES RADIODIFUSORAS DE TELEVISION UBICA-
DAS EN EL TERRITORIO NACIONAL, DEBIDAMENTE AUTORIZADAS.

PROVINCIA DE LA HABANA

SIGLAS	CANAL	POTENCIA	UBICACION	PERMISIONARIO
CMAB-TV	2	5 kw	T) Edif. Ambar Motor, 23, No.55,esq. a P.Vedado.	Telemundo S.A.
CMBF-TV	4	10 kw	T) Fca. Potrero de Coca, Barrio El Cano, Maria- neo, La Habana. E) Mazon y Sn. Miguel, La Habana.	CMBF Cadena Nacional, S.A.
CMQ-TV	6	10 kw	T) Fca. Potrero de Coca, Barrio El Cano, Maria- neo, La Habana. E) Radiocentro, M.312, Ve- dado, La Habana.	Circuito CMQ, S.A.
CMBA-TV	7	10 kw	T) Fca. Potrero de Coca, Barrio El Cano, Maria- neo, La Habana. E) Radiocentro, M. 312, Ve- dado, La Habana.	Cia. Radio Universal, S.A.
CM-TV	10	5 kw	T) Edif. Ambar Motors, 23, No.55,esq. a P.Vedado.	Televisora CMTV, S.A.
CMBJ-TV	12	5 kw	T) Hotel Hilton, 23 y L, Vedado, La Habana.	Gaspar Puma- rejo Suhc.

PROVINCIA DE MATANZAS

CMGQ-TV	9	5 kw	T) Fca. Sn. Juan, La Cum- bre, Matanzas. E) Radiocentro, M.312, Ve- dado, La Habana.	Circuito CMQ, S.A.
CMGH-TV	11	5 kw	T) Loma de Jacan, Sn. Mi- guel de los Banos, Li- monar, Matanzas. E) Edif. Ambar Motors 23 No.55,esq. a P.Vedado.	Telemundo S.A.
CMG-TV	13	5 kw	T) Fca. Sn. Juan, La Cum- bre, Matanzas. E) Mazon y Sn. Miguel, Hab.	Radio Televi- sion Nacional, S.A.

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PROVINCIA DE LAS VILLAS

SIGLAS	CANAL	POTENCIA	UBICACION	PERMISIONARIO
CMH-TV	3	5 kw	T) Loma Cerro Calvo, Sta. Clara, L.V. E) Mazon y Sn.Miguel, La Habana.	CMBF Cadena Nacional,S.A.
CMHQ-TV	5	5 kw	T) Loma Dos Hermanas, Sn. Vicente, Santa Clara, L.V. E) Radiocentro M. 312 Vedado, La Habana.	Circuito CMQ, S.A.
CMRA-TV	8	5 kw	T) Fca. Sarduy, Hacien- da, Escambray, B.Sei- bahos, Sta. Clara, L.V.	Telemundo S.A.

PROVINCIA DE CAMAGUEY

CMJA-TV	2	5 kw	T) Km. 465, CC.Ciego de Avila, Camaguey. E) Mazon y Sn.Miguel, La Habana.	Radio Televi- sion Nacional S.A.
CMJ-TV	4	5 kw	T) Barrio Maraguan, Camaguey. E) Mazon y Sn.Miguel, La Habana.	CMBF Cadena Nacional,S.A.
CMJL-TV	6	10 kw	T) Barrio Maraguan, Camaguey. E) Radiocentro, M.312, Vedado, La Habana.	Circuito CMQ, S.A.
CMFD-TV	7	5 kw	T) Ciego de Avila, Camaguey. E) Radiocentro, M.312, Vedado, La Habana.	Circuito CMQ, S.A.
CMFE-TV	9	5 kw	T) Loma Monroya, Fca. Flora, Hato Arriba, Camaguey. E) Edif. Ambar Motors, 23 No.55 esq.a P.Ve- dado, La Habana.	Telemundo S.A.
CMFT-TGV	12	5 kw	T) Loma Contigua, Sierra Buenavista, Jatiboni- co, Camaguey. E) Edif. Ambar Motors, 23 No.55, esq. a P.Vedado.	Telemundo S.A.

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RELACION DE LAS ESTACIONES RADIODIFUSORAS DE FRECUENCIA MODULADA
QUE SE ENCUENTRAN AUTORIZADAS PARA OPERAR EN EL TERRITORIO NACIO-
NAL

PROVINCIA DE LA HABANA

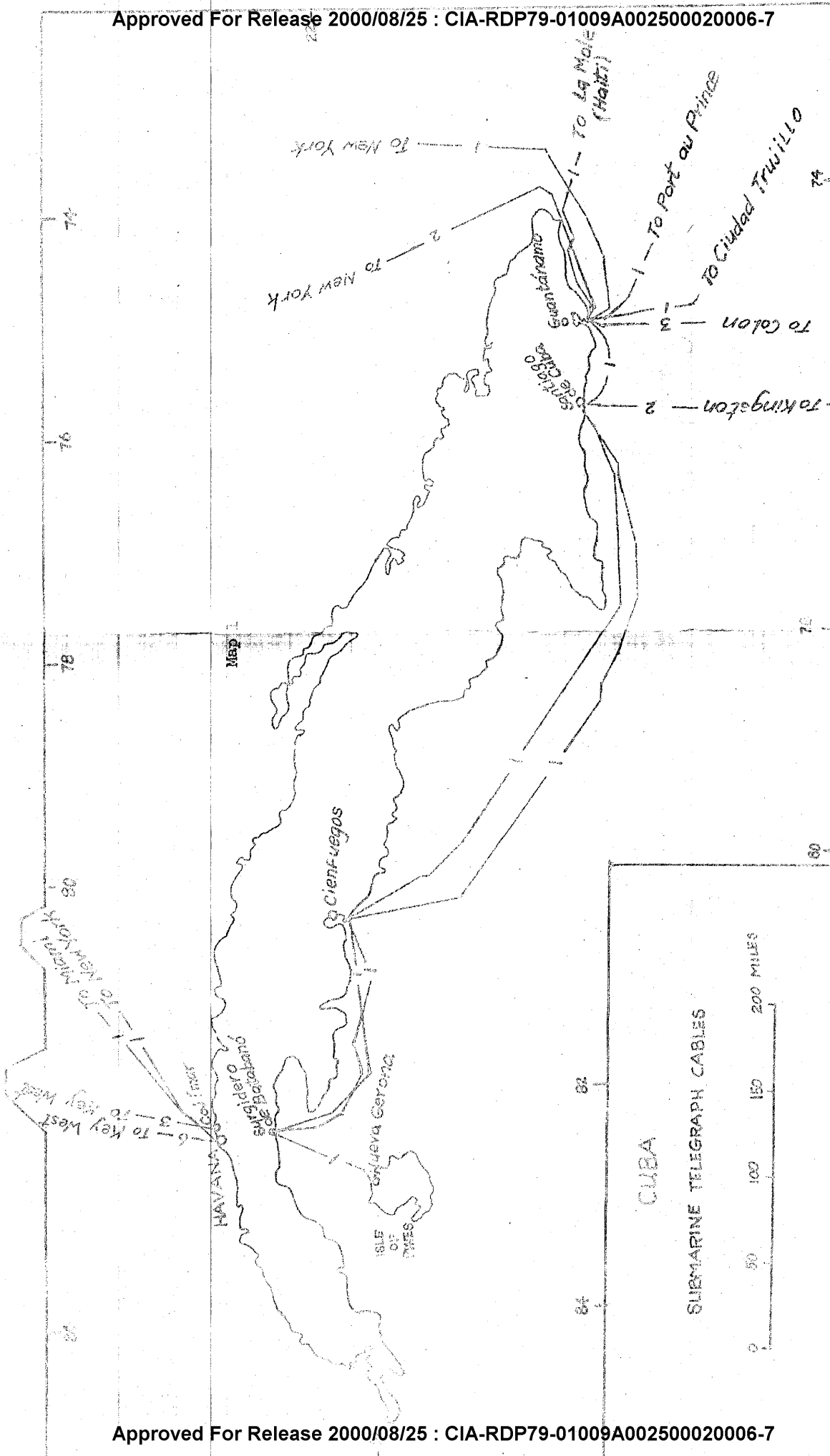
<u>SIGLAS</u>	<u>CANAL</u> Mcs.	<u>POTENCIA</u>	<u>UBICACION</u>	<u>PERMISTIONARIO</u>
CM-B24-FM	90.5	250 V.	Calle 10, No. 423, Vedado, La Habana.	Norman Diaz.
CM-B43-FM	95.9	250 V.	Calle L. No. 353, Vedado, La Habana.	Leonardo Diago Pellerano.
CM-B21-FM	102.7	250 V.	Prado y Refugio, Hab.	Ventura Montes Martinez.

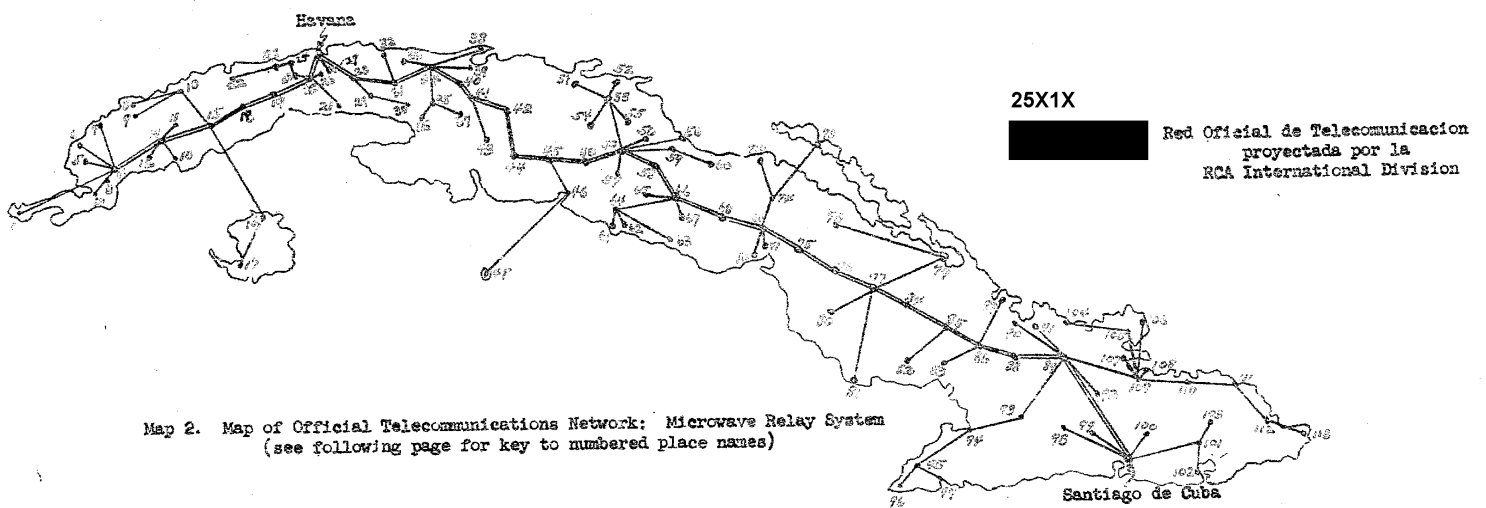
PROVINCIA DE CAMAGUEY

CM-J21-FM	143.10	250 V.	Lugareno No. 429, Camaguey.	Soc. Reg. Co- lectiva Artesa- ga y Mateo.
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PROVINCIA DE ORIENTE

CM-K7-FM	89.5	250 V.	Aguilera No. 505, Santiago de Cuba, Ote.	J. Diaz Viz- caino.
CMKC-FM	99.3	250 V.	Aguilera No. 511, Santiago de Cuba, Ote.	Radio Oriente, S.A.





Key to place names indicated by number on Map 2

- | | | | |
|----------------------------|--------------------------|---------------------------|-------------------|
| 1. Cabo de San Antonio | 31. Madruga | 61. Trinidad | 91. Delicias |
| 2. La Fe | 32. Santa Cruz del Norte | 62. Casilda | 92. San Germán |
| 3. San Julián | 33. Canasí | 63. Tunas de Zaza | 93. Bayamo |
| 4. Guane | 34. Matanzas | 64. Topes de Collantes | 94. Manzanillo |
| 5. Mantua | 35. Unión de Reyes | 65. Fomento | 95. Niquero |
| 6. Los Arroyos | 36. Alacranes | 66. Cabaiguán | 96. Cabo Cruz |
| 7. Dimas | 37. Pedro Betancourt | 67. Sancti Spiritus | 97. Pilon |
| 8. San Lucía | 38. Kawama | 68. Jatibonico | 98. Contramaestra |
| 9. Matabambre | 39. Cárdenas | 69. Ciego de Ávila | 99. Palma Soriana |
| 10. Consolación del Norte | 40. Colisea | 70. Júcaro | 100. La Maya |
| 11. Consolación del Sur | 41. Jovellanos | 71. Stewart | 101. Guantánamo |
| 12. San Juan y Martínez | 42. Colón | 72. Punta Alegre | 102. Caimanera |
| 13. La Coloma | 43. Jagüey Grande | 73. Paredón Grande | 103. Felicidad |
| 14. Pinar del Río | 44. Aguada de Pasajeros | 74. Morón | 104. Gibara |
| 15. Paso Real de San Diego | 45. Rodas | 75. Ciego Corojo | 105. Banes |
| 16. Nueva Gerona | 46. Cienfuegos | 76. Florida | 106. Lucrecia |
| 17. Caleta Grande | 47. Cayo Guana | 77. Camagüey | 107. Antilla |
| 18. San Cristóbal | 48. Cruces | 78. Esmeralda | 108. Preston |
| 19. Artemisa | 49. Santa Clara | 79. Nuevitas | 109. Mayarí |
| 20. Campo Batista | 50. Camajuaní | 80. Vertientes | 110. Cayo Mambí |
| 21. Batanabó | 51. Rancho Veloz | 81. Santa Cruz del Sur | 111. Punta Gorda |
| 22. Bahía Honda | 52. La Isabela | 82. Francisco | 112. Baracoa |
| 23. Cabañas | 53. Segua la Grande | 83. Jobabo | 113. Maisí |
| 24. Mariel | 54. Santo Domingo | 84. Siboney | |
| 25. Guanaajay | 55. Encrucijada | 85. Guáimaro | |
| 26. Bejuacal | 56. Caibarién | 86. Victoria de las Tunas | |
| 27. Managua | 57. Manicaragua | 87. Manatí | |
| 28. San José de las Lajas | 58. Placetas | 88. Buenaventura | |
| 29. Güines | 59. Remedios | 89. Holguín | |
| 30. Los Palos | 60. Yaguajay | 90. Puerto Padre | |

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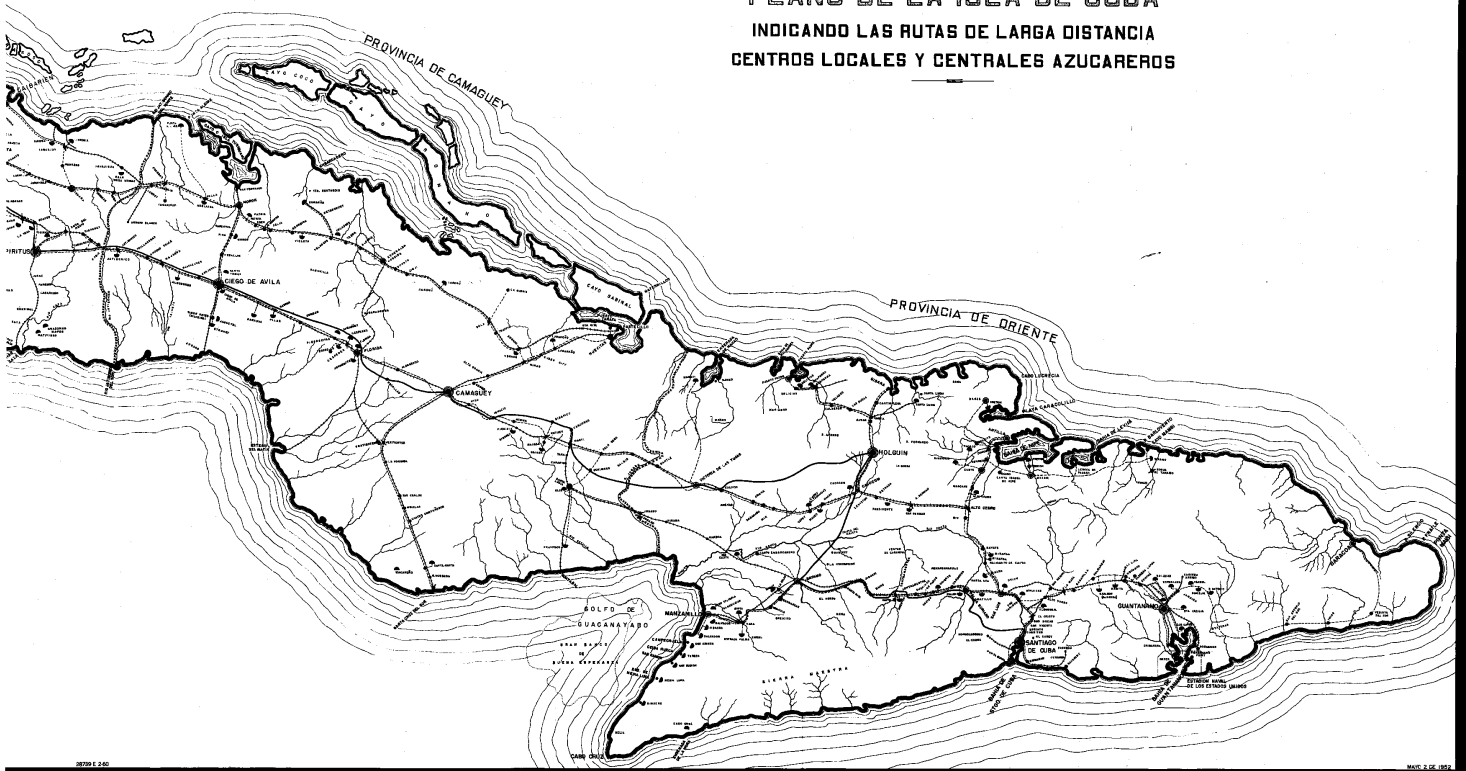
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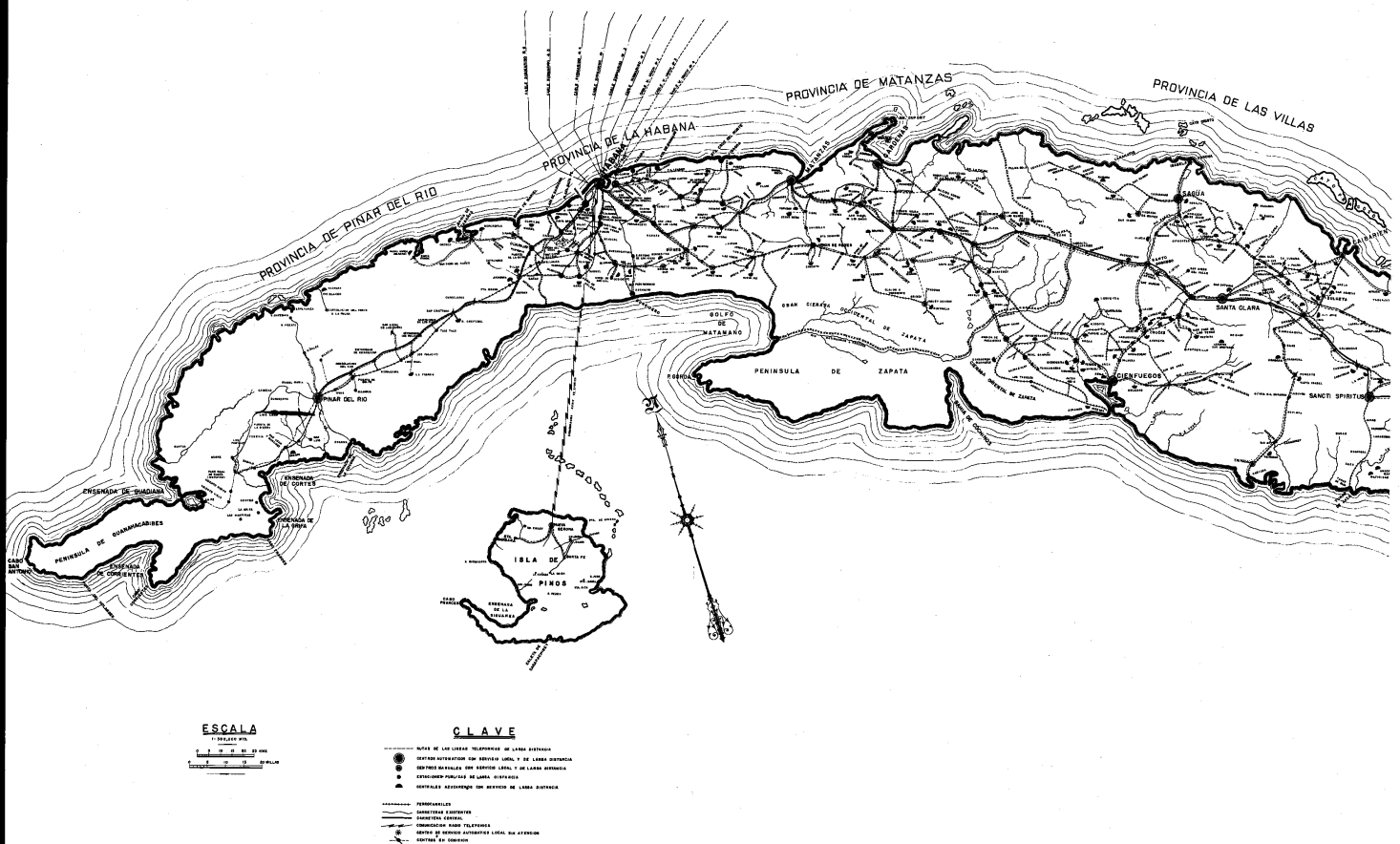
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